

**METHOD AND SYSTEM FOR EFFICIENTLY COORDINATING ORDERS
WITH PRODUCT MATERIALS PROGRESSING THROUGH A
MANUFACTURING FLOW**

ABSTRACT

A method and system is provided for dynamically coordinating one or more product orders with product parts progressing through a manufacturing process flow. After identifying a first order for generating one or more lots of parts for manufacturing a first product, wherein the first order identifies a predetermined base feature, one or more customer specific features, one or more order specific features, and the quantity of the first product, A smart code is assigned to the first order and the lots of parts, wherein the smart code identifies an association between the first order and the lots of parts. An analysis is then performed, based on the smart codes assigned thereto, to see whether one or more available lots of parts of a second order in production are ready to be converted to produce the first product. The smart code of the available lots is changed to the smart code of the first order if the available lots of the second order are chosen to be further processed for fulfilling the first order.